



Replacement Sheet  
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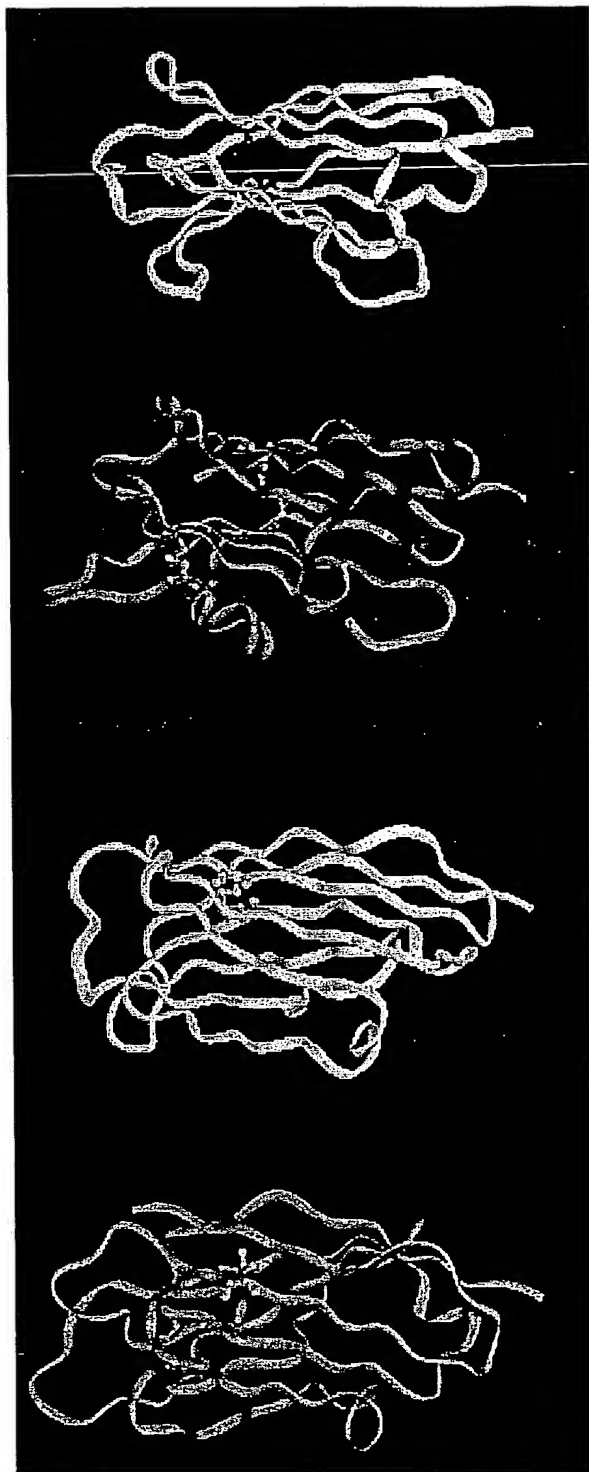


Fig. 1

BEST AVAILABLE COPY

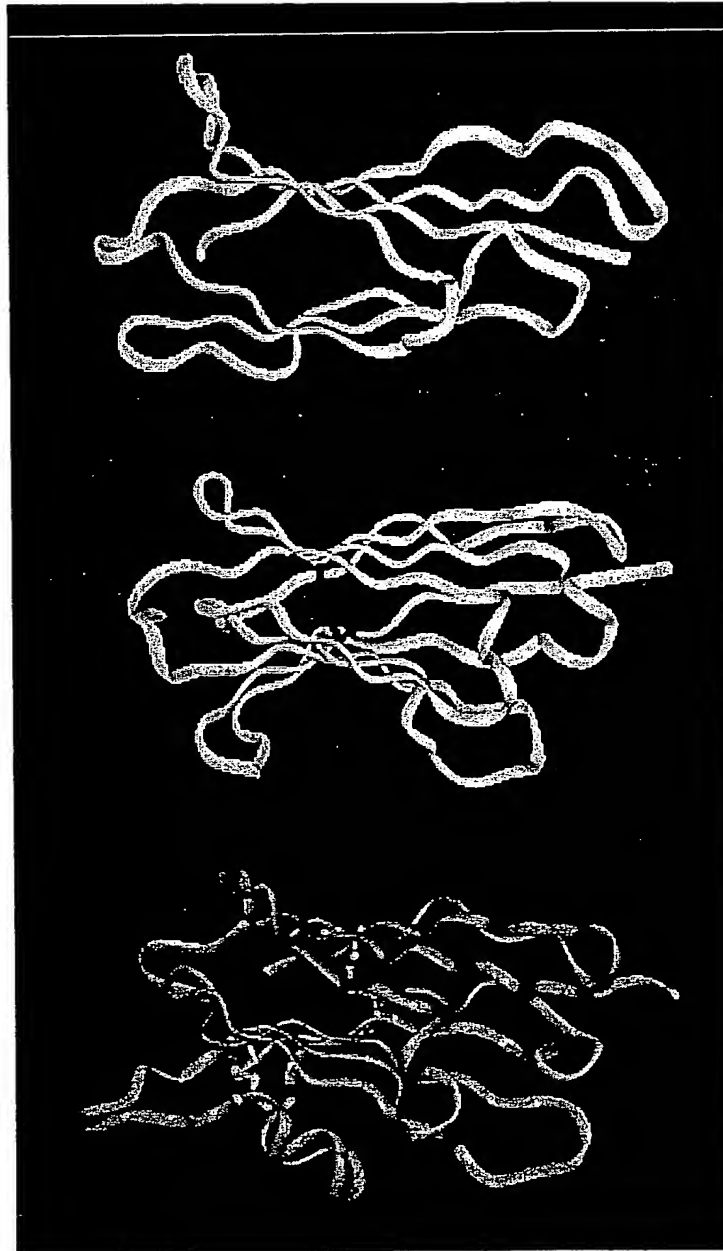


Fig. 2

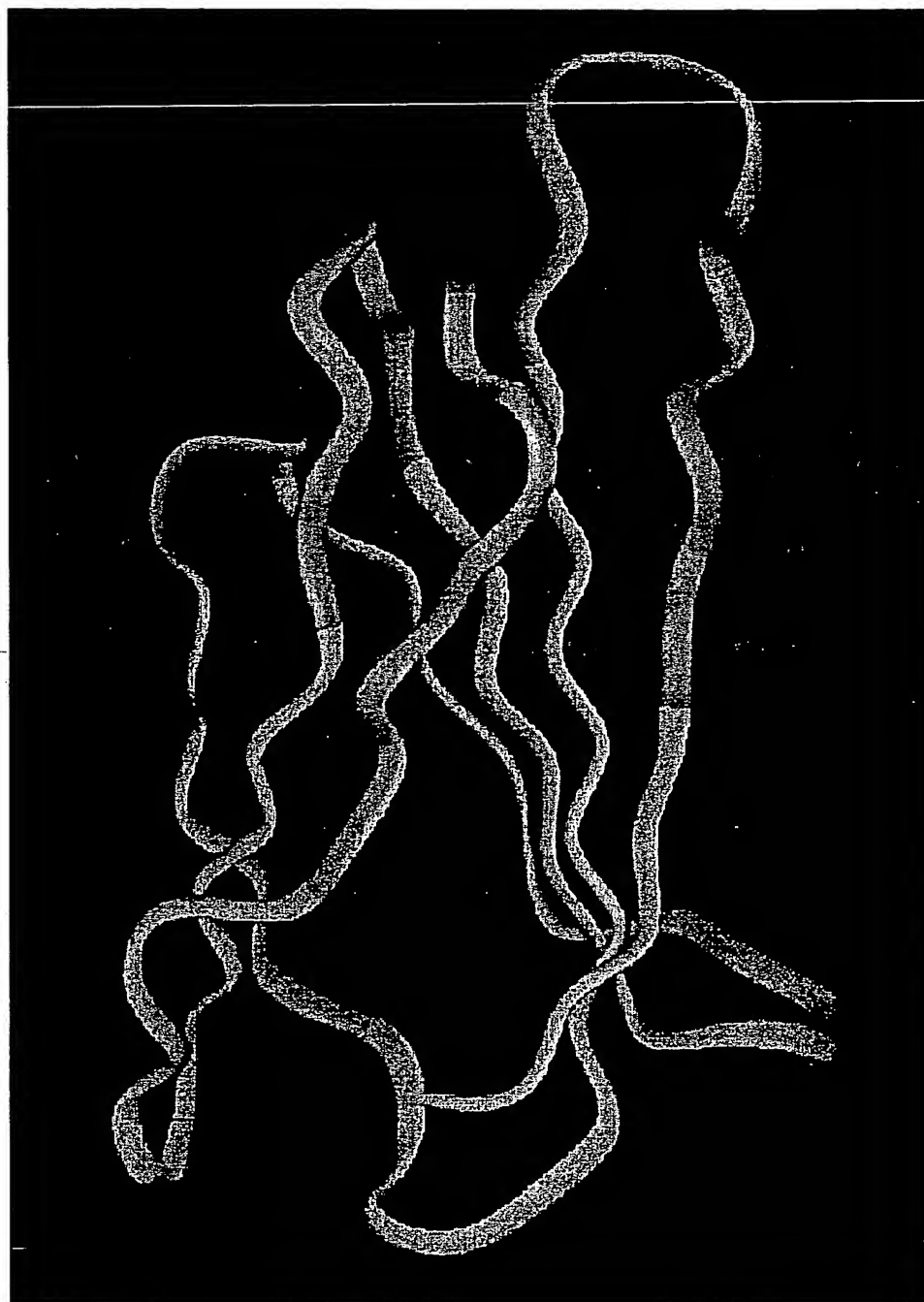


Fig. 3

1	9	10	19	20	29	30	37	38	47	48	57	58	67	68	77	78	87	88	94
Hs FND	VSDVPRD-LE	VVAATPTSLL	ISWDAPAVTV	RYRITYG--	ETGNSPVQE	FTVPGSKSTA	TISGLKPGVD	YITVYAVTG	RGDSPASSKP	ISINYRT									
Bt FN	VSDVPRD-LE	VIAATPTSLL	ISWDAPAVTV	RYRITYG--	ETGSSPVQE	FTVPGSKSTA	TISGLKPGVD	YITVYAVTG	RGDSPASSKP	VSINYRT									1510
Rn FN	VSDVPRD-LE	VIATPTSLL	ISWEPpAVSV	RYRITYG--	ETGNSPVQE	FTVPGSKSTA	TINnIKPGAD	YITVYAVTG	RGDSPASSKP	VSINYQT									1611
Mm FN	VSDIPRD-LE	VIATPTSLL	ISWEPpAVSV	RYRITYG--	ETGNSPVQE	FTVPGSKSTA	TINnIKPGAD	YITVYAVTG	RGDSPASSKP	VSINYKT									712
Oc FN	VSDVPRD-LE	VIATPTSLL	ISWEXPAVTV	RYRITYG--	ETppN----	FTVPGSKSTA	TINnIKPGAD	YITVYAVTG	RGDSPASSKP	VSINYKT									64
Gg FN	VSDVPRD-LE	VNpTSPTSLE	ISWDAPAVTV	RYRITYG--	ETGSSPVQE	FTVPGTMSrA	TITGLKPGVD	YITVYAVTG	RGDSPASSKP	VTVTYKT									443
X1 FN	VSDVPTD-LE	VTSSSPNTLT	ISWEAPAVSV	RYRITYS--	QTGGhgPEKE	FTVPGSNTA	TIRGLNPGVS	YITVYAVTG	RGDSPASSKP	LTIIHKT									1611
Cf FN	AiDAPSn-Lr	FLATTpNsLL	VSWQpPrArI	TGYIIKye--	kpGSpPrEVV	prprpGVTeA	TITGLEPGTE	YTIQVIAIKn	NQKSepLIgr	kKtDEL-									197
Ec FN	AiDAPSn-Lh	FLATTpNsLL	ISWQpPrArI	TGYIIKye--	kpGSpPrEVV	prphpGVTeA	TITGLEPGTE	YTIQVIAIKn	NQKSepLIgr	rKtdEp-									197
Hs TC	VS-PPKD-Lv	VteVTeetVN	LAWDn-emrV	TeYLVVYTP-	-THEGgleMQ	FrVPGQDTST	IIQeLePGVE	YFIRVFAIle	NKKSipVSAr	V-----									686
Ss TP	VS-PPKD-Li	VteVTeetVN	LAWDn-emrV	TeYLVVYTP-	-THEGgleMQ	FrVPGQDTST	TIRELePGVE	YFIRVFAIle	NKKSipVSAr	V-----									686
Mm TX	MidGPQD-Lr	VVAVTPTTLD	LSWlRPQaev	DrFVVSvV--	--SAGNqRvR	LeVPPeADrT	QLTdLMPGVE	VVTVTAERG	HAVSypASir	ANTG---									889
Hs CAP	TlpVPvvSLn	IYdVGPTTMH	VQWQp-VGGA	TGYILSYkpv	kDTEpTrpKE	VrLGpTFVNdM	QLTdLVpNTE	YAVTVQAVLh	dLTsepVTr	e-----									1551
Oc C12	TlpVPvvSLN	IYdVGPTTMH	VQWQp-VGGA	TGYILSYkpv	kDTEpTrpKp	QdVklRdVTH	ELDGLLPNTE	YTVTVYAMF-	-----										322
Gg C14	LalpmASDLk	LYdVShSSMR	AKWnG-VAGA	TGYMILYAPL	TEGLAadeKE	IKIGEASTel	ELDGLLPNTE	YTVTVYAMF-	-----										508
Hs U1	LalpmASDLl	LYdVTenSMR	VKWDA-VpGA	SGYLLLYAPL	TEGLAGdeKE	MkIGETHTDI	ELSGLLPNTE	YTVTVYAMFG	eeASDpVTGq	e-----									321

var.

cons.	P	L	V	SL	W	V	Y	I	Y	I	L	PGVD	Y	ITV	A	G	S	P
	M	I	I	TV	M	A	F	V	V	L	I	NTE	VQL	N	R	E	R	
		L	L	M		I					AS	R						
			F															

CAP	Collagen alpha precursor	BOLD	identical to Hs FND
C12	Collagen type 12	lower case	non-conservative substitution (charge reversal, change between hydrophobic and charged, addition or removal of P) position of non-conservative substitutions
FND	Fibronectin type III domain		
FN	Fibronectin		
TP	Tenascin precursor		
TC	Tenascin-C		
U1	Undulin 1		

Bt	Bovis taurus	cow
Cf	Canis familiaris	dog
Ec	Equus caballis	horse
Ss	Sus scrofa	pig
Hs	Homo sapiens	human
Oc	Oryctolagus cuniculus	rabbit
Xl	Xenopus laevis	African clawed frog

Fig. 4

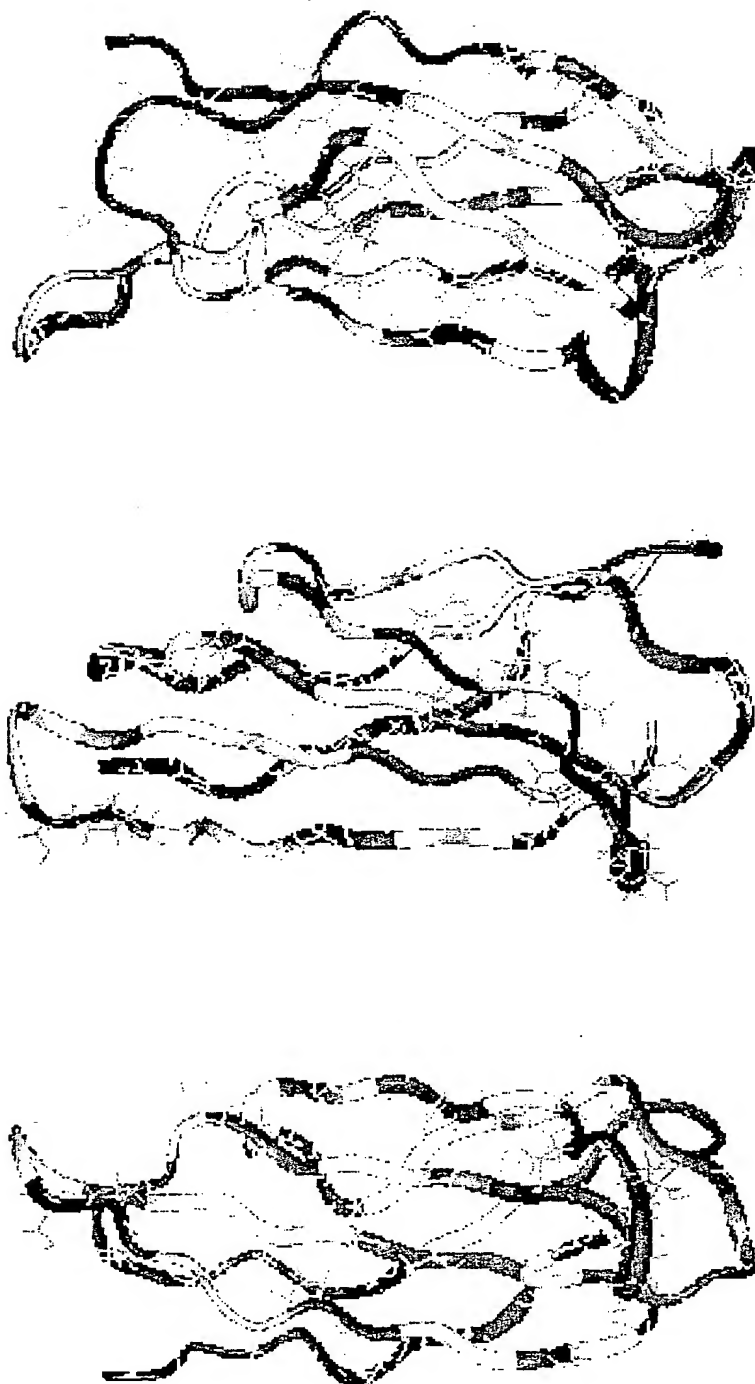


Fig. 5

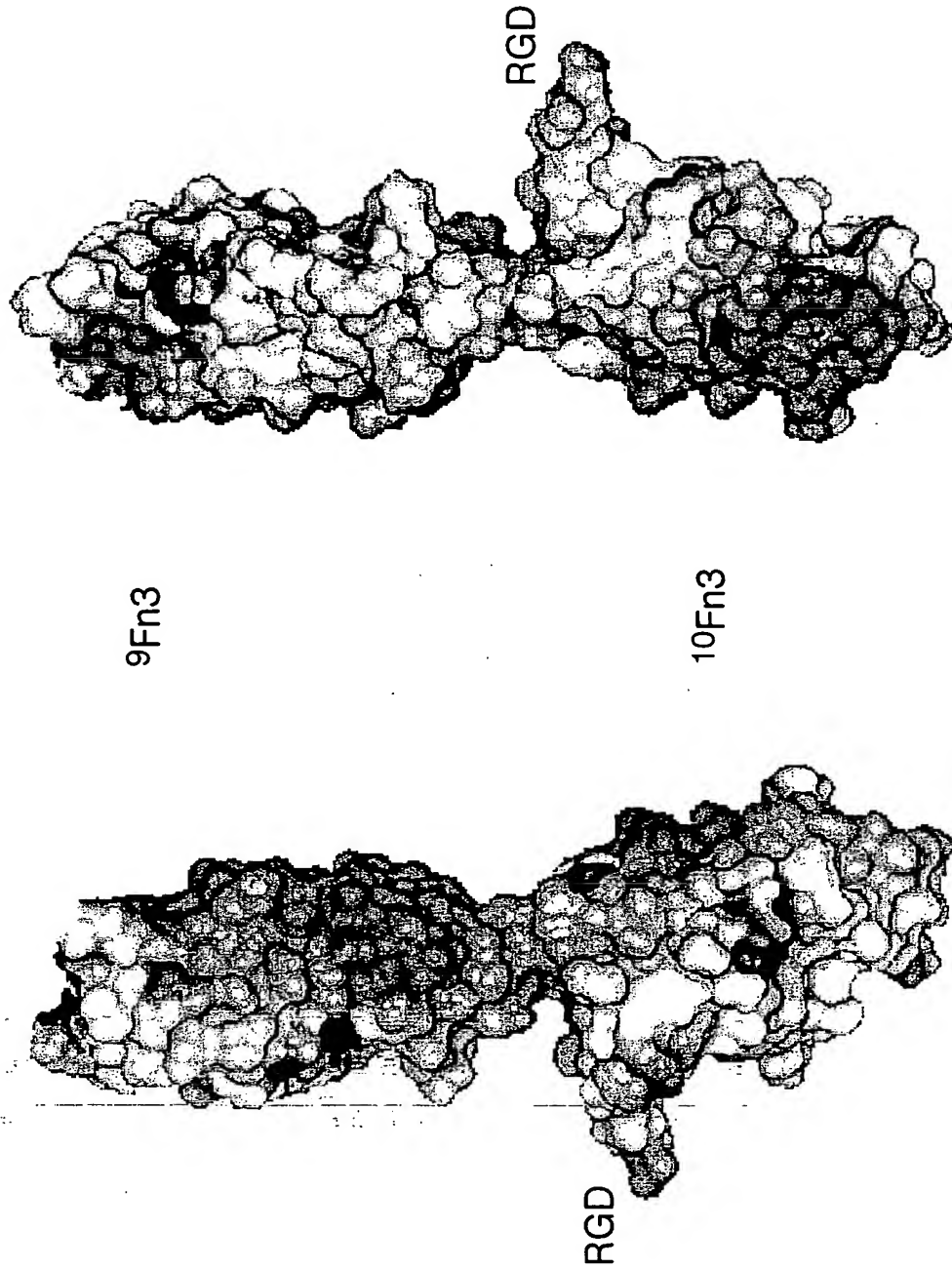


Fig. 6

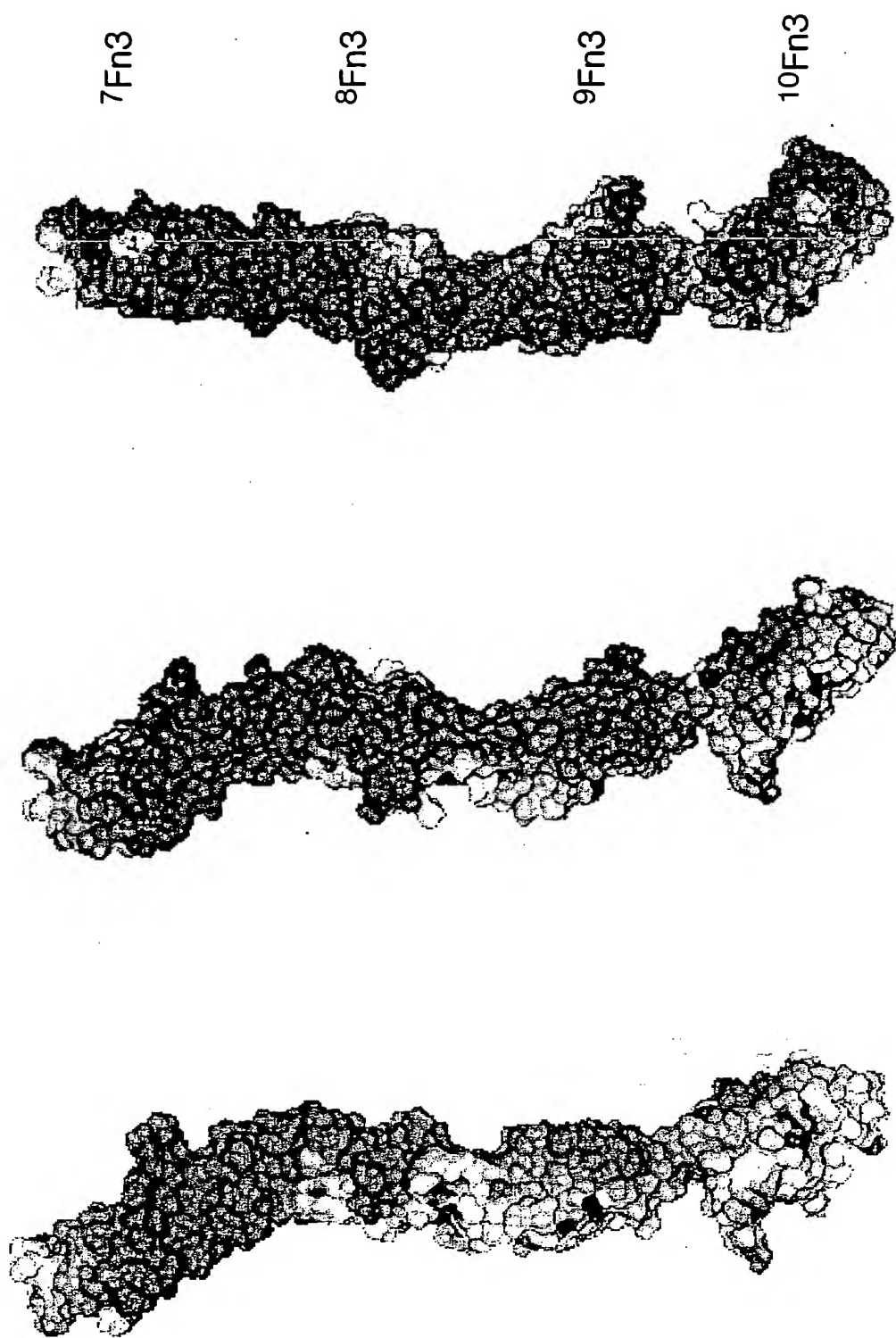


Fig. 7

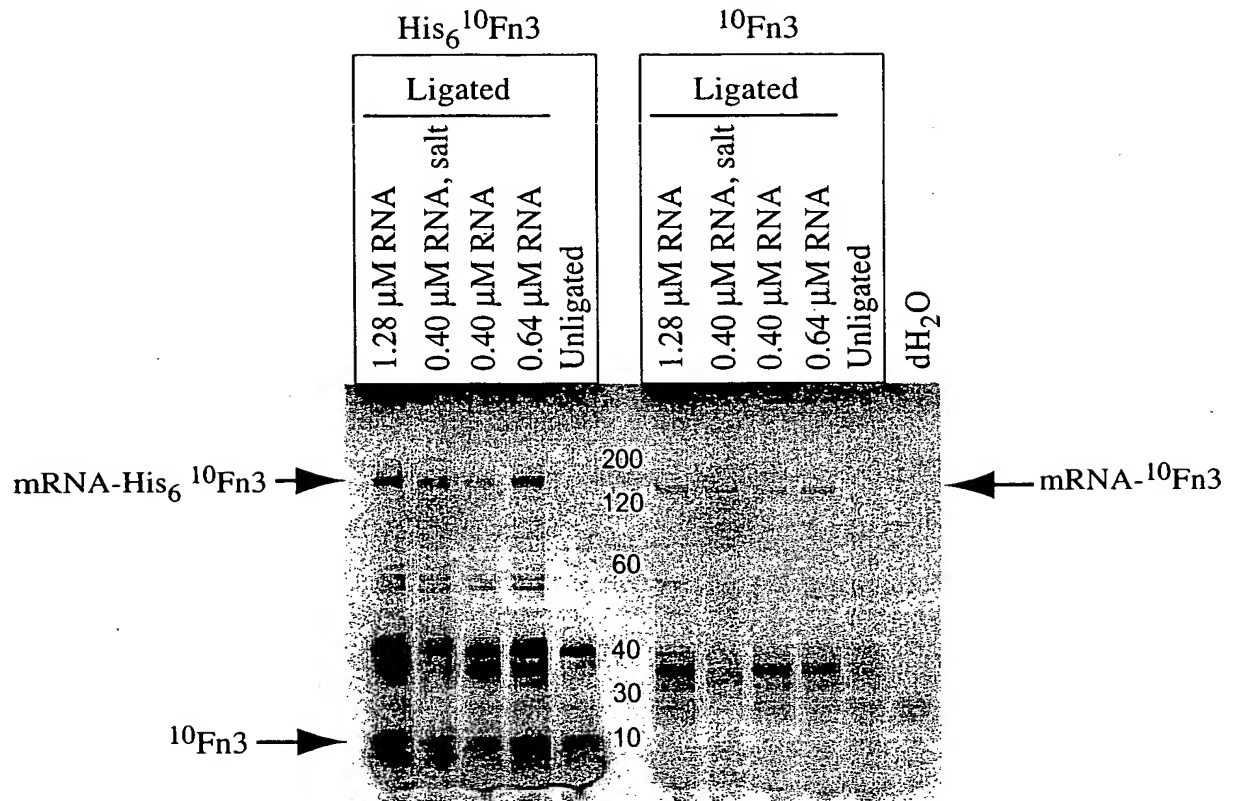


Fig. 8



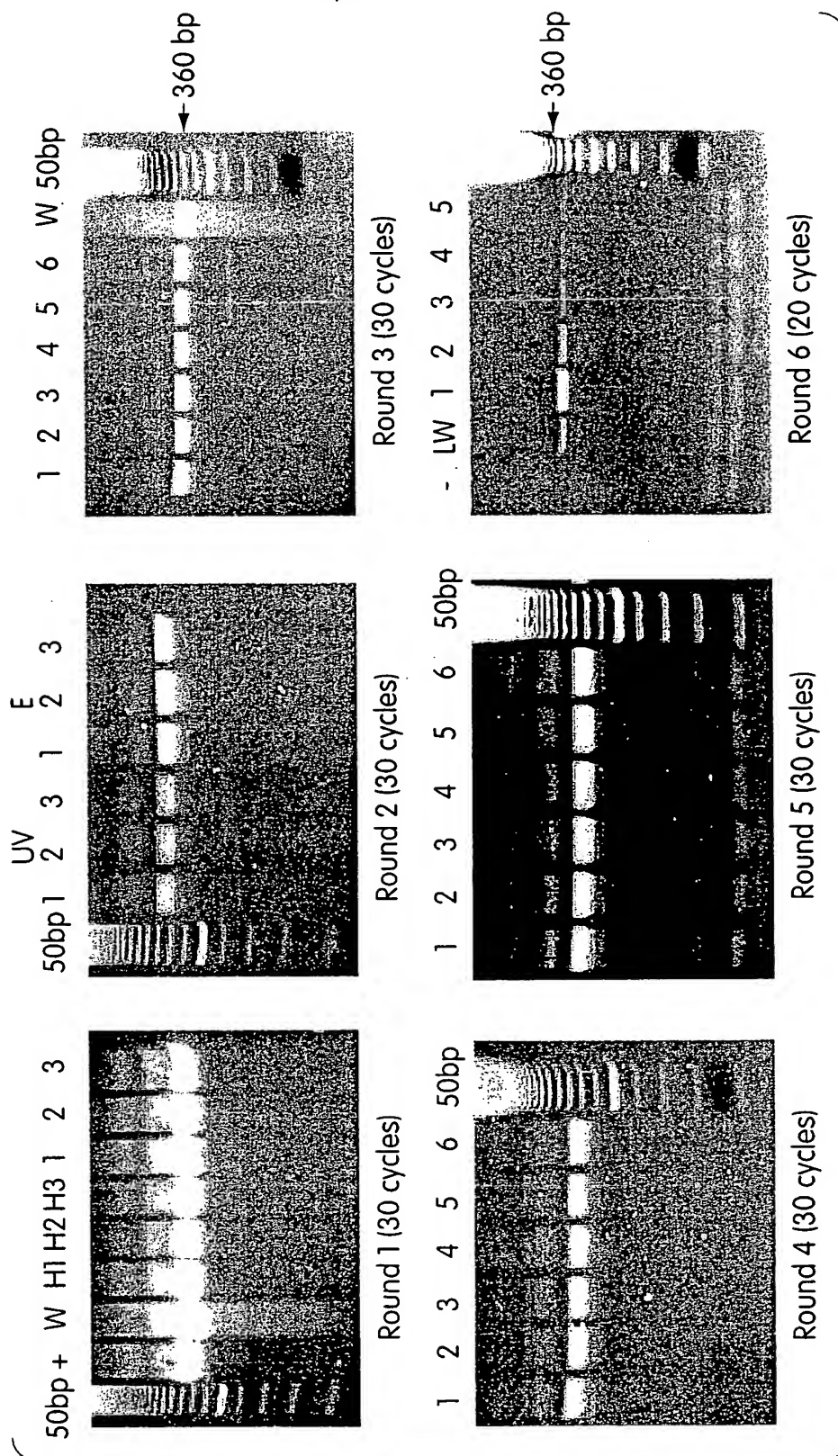


Fig. 9

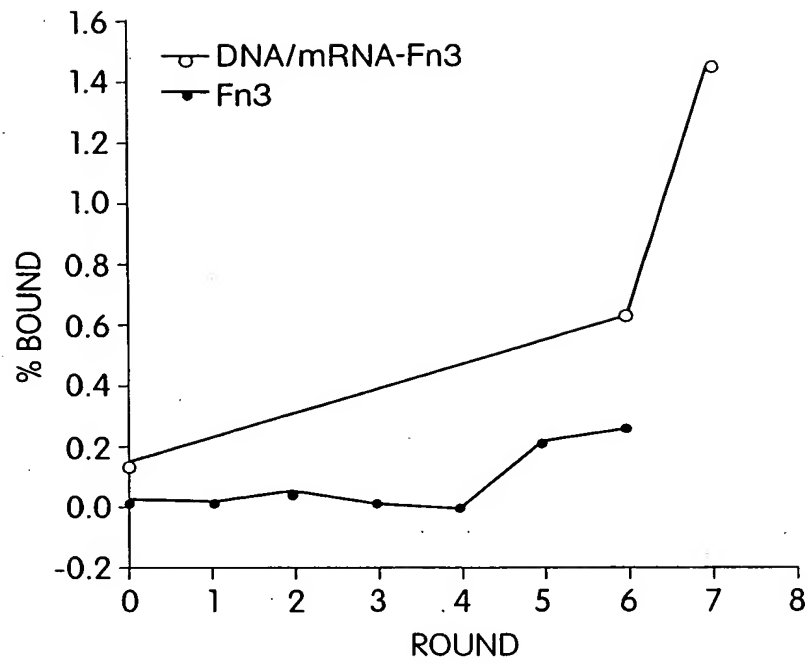


Fig. 10

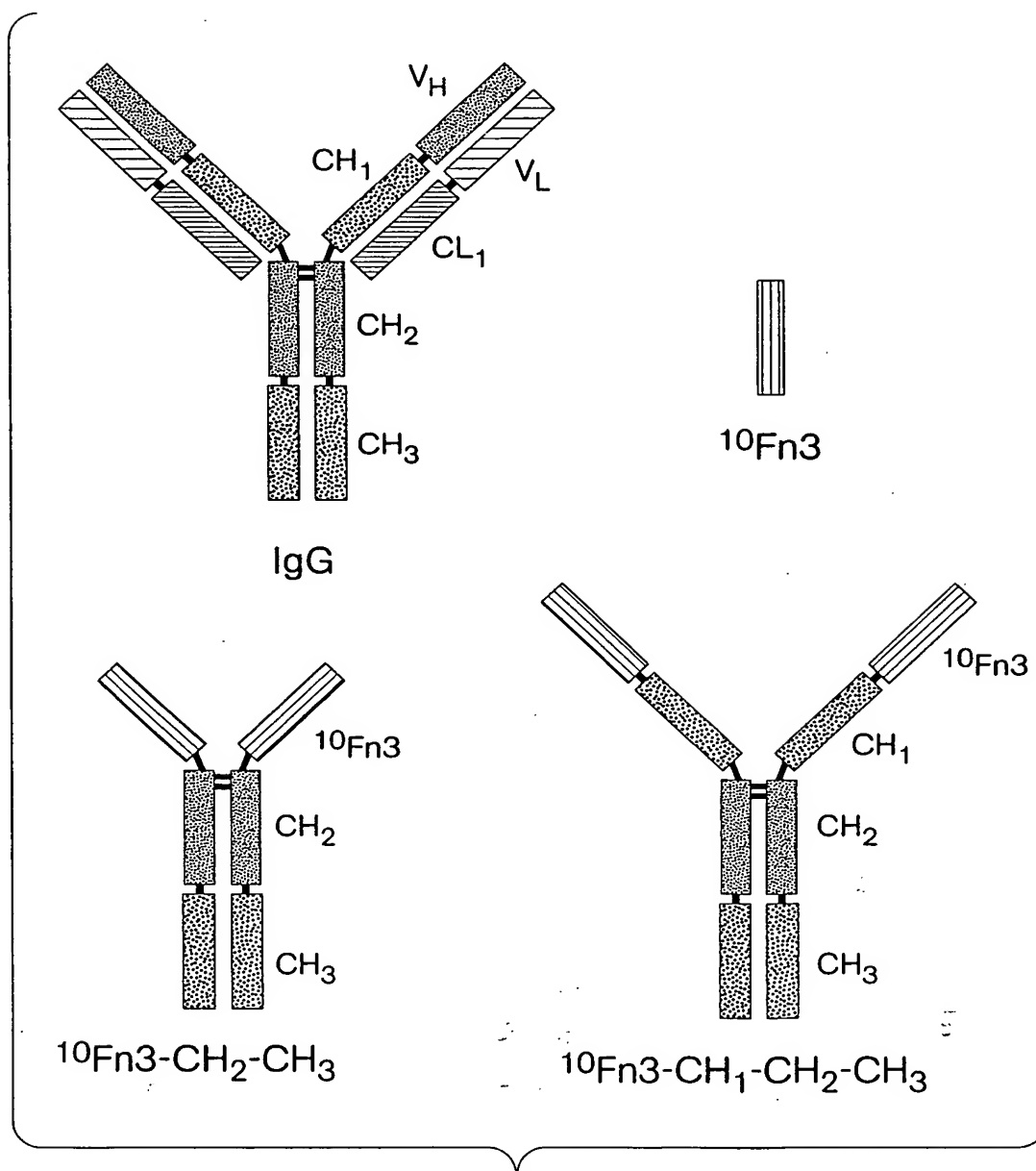


Fig. 11

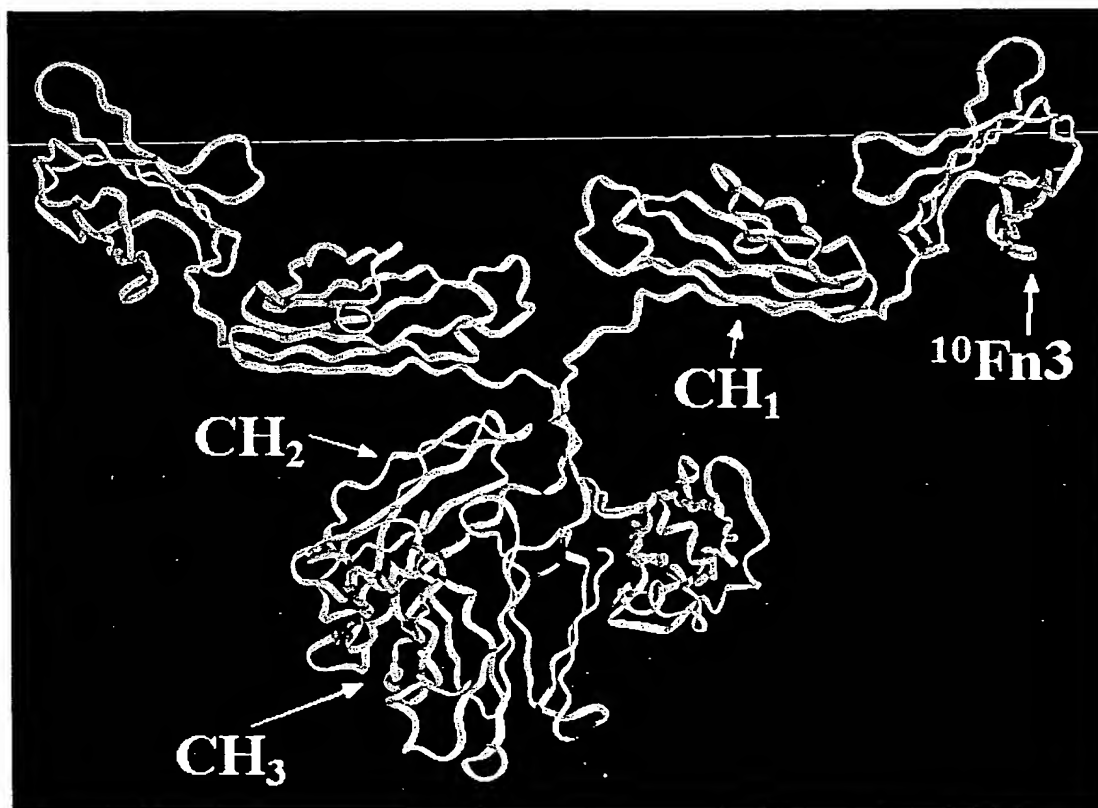


Fig. 12

FIG. 13

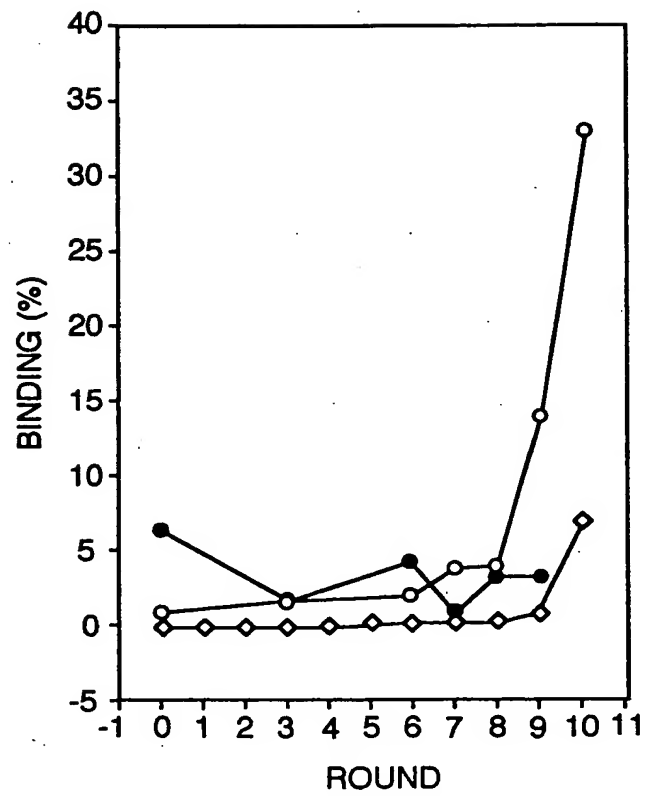


FIG. 14

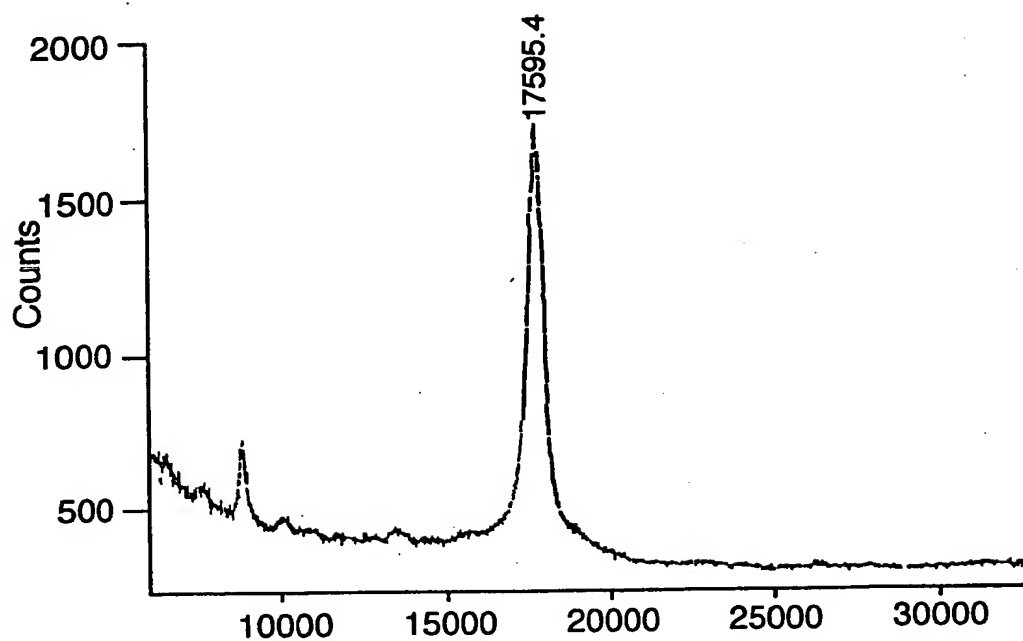


FIG. 15

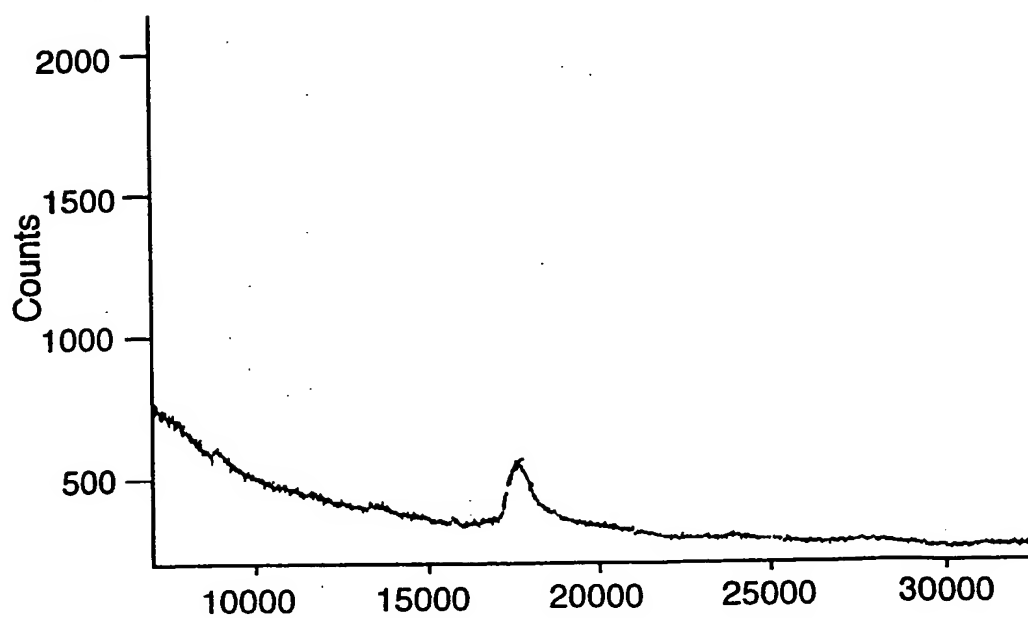


FIG. 16

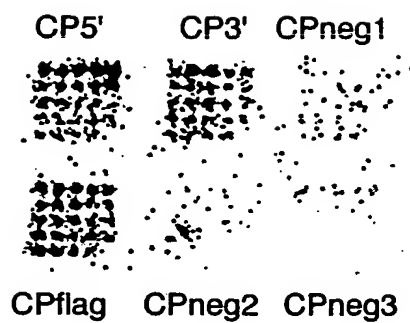


FIG. 17

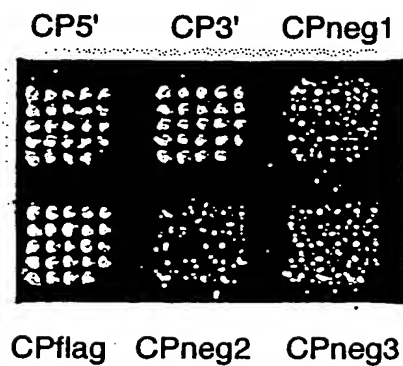


Fig. 19



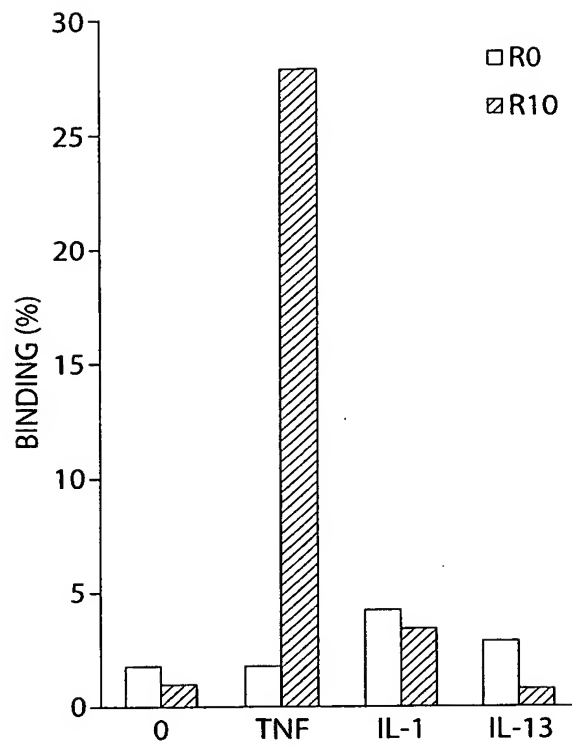


Fig. 20

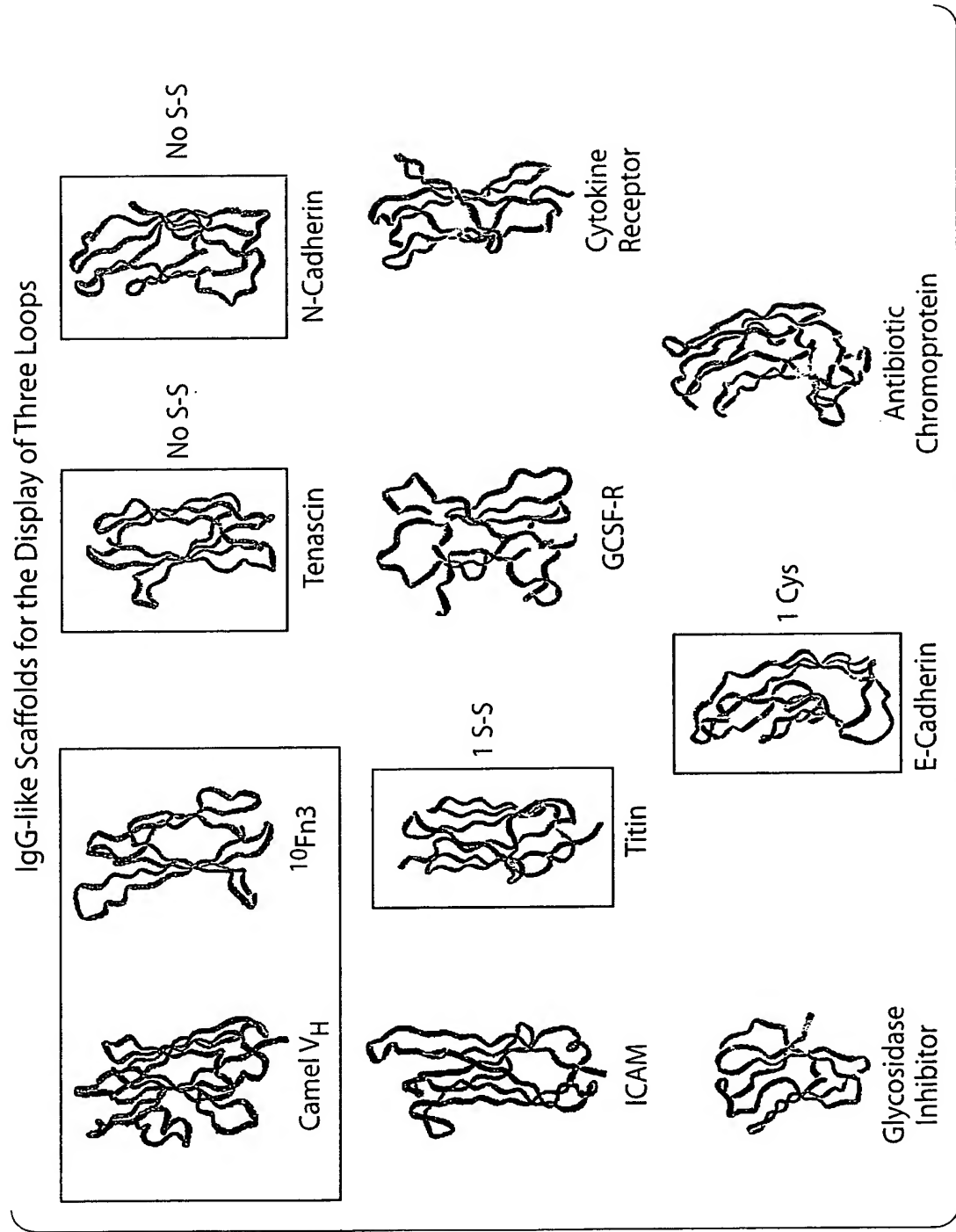
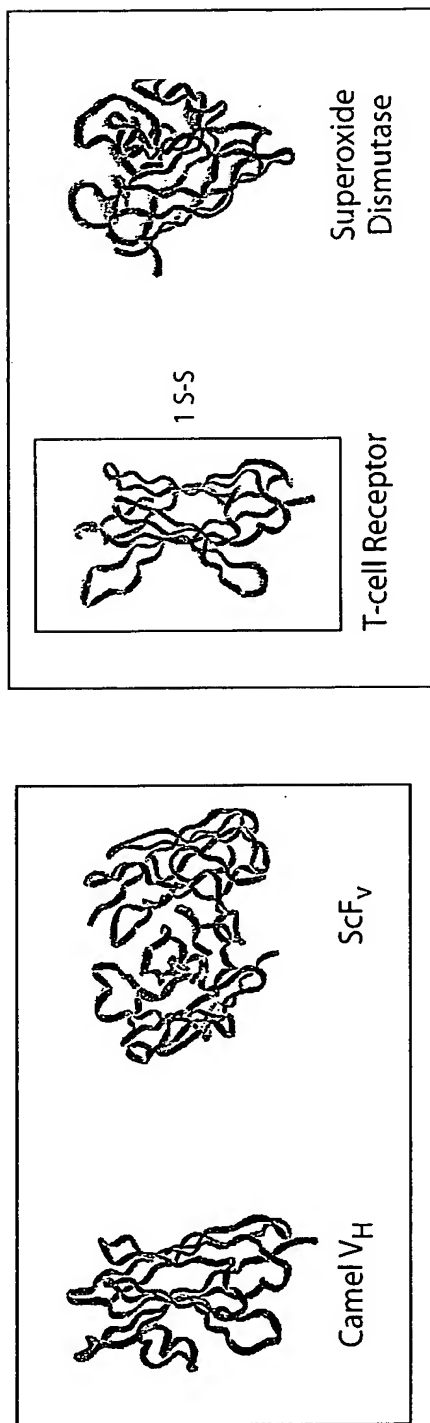


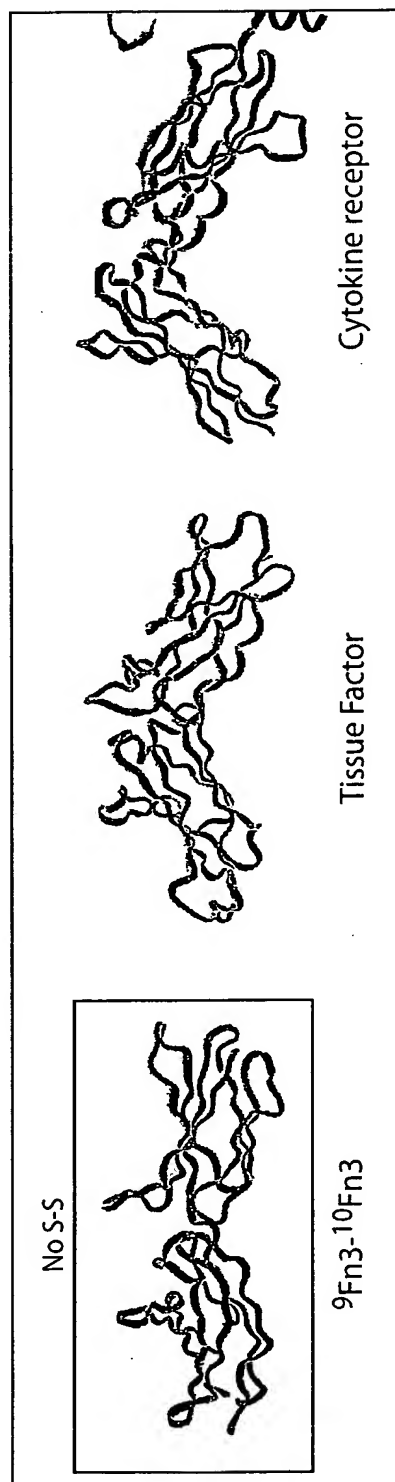
Fig. 21

IgG-like Scaffolds for the Display of Four or Six Loops

4 Loops



1 S-S

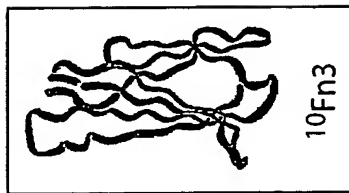


No S-S

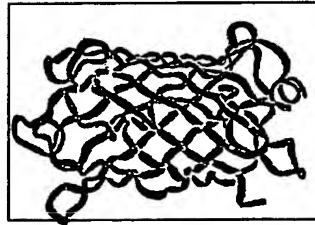
6 Loops

Fig.22

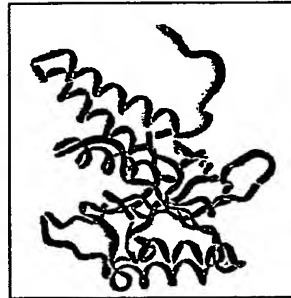
Scaffolds Unrelated to IgG



No S-S



No S-S



Green Fluorescent Protein

GroEL

Thaumatin

Fig. 23

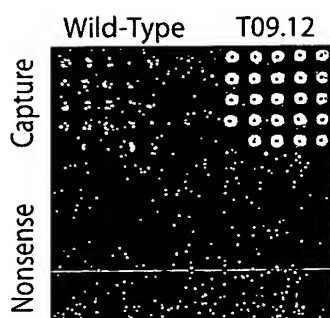


Fig. 24A

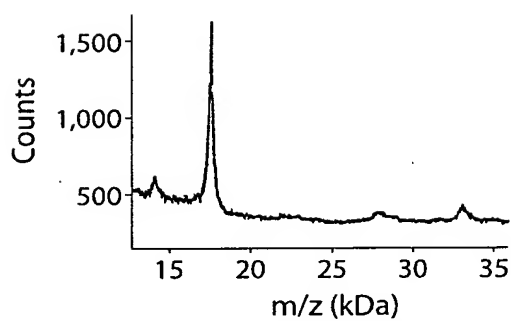


Fig. 24B

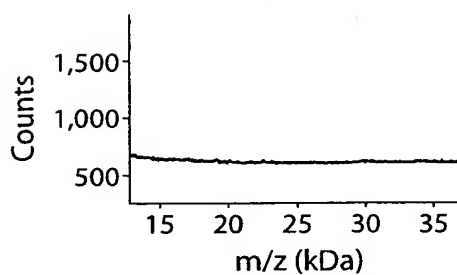


Fig. 24C

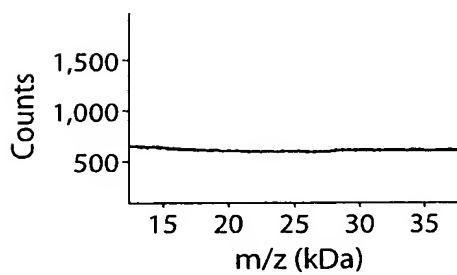


Fig. 24D

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FIG. 25A

ROUND 9 (32)

BC

DE

FG

SEQ. ID. NO.

	1	15	16	DAPAVTV3031	45	46	GSKS	60	61	74	75	GRGDS	PASSK	90
WT	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSKPIB	INVRT	33						
T09.08	VSEIPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSLV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTTTTRTRIDKQPIB	INVRT	34						
T09.26	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTCNGTTPRHRLRPNP	H	35						
T09.20	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTLTQNSDHTYPIB	INVRT	36						
T09.25	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPDGRHMLTKPIB	INVRT	37						
T09.30	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKNGRRRQ---	G	38						
T09.02	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPTRMLKQPSMPIS	INVRT	39						
T09.34	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPTRMLKQPSMPIS	INVRT	40						
T09.03*	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	41						
T09.13	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	42						
T09.29	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	43						
T09.01	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	44						
T09.14	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	45						
T09.24	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	46						
T09.19	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	47						
T09.31	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	48						
T09.07	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	49						
T09.36	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	50						
T09.16	-NTTTRKQNYATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	51						
T09.23	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	52						
T09.21	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	53						
T09.33*	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	54						
T09.10	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	55						
T09.28	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	56						
T09.15	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	57						
T09.09	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	58						
T09.35	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	59						
T09.06	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	60						
T09.11	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	61						
T09.12*	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	62						
T09.17	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	63						
T09.04	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	64						
T09.05	VSDVPRDLEVVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QEFVPGSKSTATIS	GLKPGVDY-TITVYA	VTPKETSNTFLAPIS	INVRT	65						

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## FIG. 25B

ROUND 10 (29)

	BC	DE	FG	SEQ. ID. NO.
1	15 16	45 46	60 61	74 75
WT	DAPAVTV3031		75GRGDSPASSK	90
VSDVPRDLEVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTGRGDSPASSKPI8 INYRT 33
T10.37	TSLLIRERB----	RR YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 66
T10.12	TSLLISRDURVBSRR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 67
T10.21	TSLLISWHEMATPNTR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 68
T10.40	TSLLISWYLCTGNRR	DYRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 69
T10.31a	TSLLISWRTSPASPHG	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 70
T10.41	TSLLISWMAHAPHDR	NYRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 71
T10.13	TSLLISWPPDNATPR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 72
T10.03	TSLLISWMLLRDORR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 73
T10.33	TSLLISWSPNDAAHR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 74
T10.27	TSLLISWSPNDAAHR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 75
T10.05	TSLLISWSPNDAAHR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 76
T10.01	TSLLISWSPNDAAHR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 77
T10.34	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 78
T10.36	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 79
T10.30	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 80
T10.06	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 81
T10.17	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 82
T10.18	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 83
T10.39	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 84
T10.02	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 85
T10.08	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 86
T10.20	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 87
T10.29	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 88
T10.15	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 89
T10.15	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 90
T10.35	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 91
T10.26	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 92
T10.14	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 93
S08.02	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 94
S08.03	TSLLISWNRSGLOSR	YRITYGETGNSPV	GLKPGVDY-TITVYA	VTFRHGHFDLELPI8 INYRT 95

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FIG. 25C

ROUND 14 (22)

	BC	DE	FG	SEQ. ID. NO.
WT	15 16	45 46	75 76	GRGDSPASSK 90
T14.25	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPGSKSTATIS
T14.03	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	REFTVPHPEVTATIS
T10.06	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.12	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.13	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.17	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.05	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.14	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.23	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.26	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.24	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.20	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.19	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.11	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.10	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.22	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.21	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.01	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.06	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.08	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.02	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS
T14.15	VSDVPRDLEVVAAATP	TSLLISWDPAPVTVR	YRITYGTGNSPV	QFTVPHPEVTATIS



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FIG. 25D

ROUND M12 (24)

	1	15	16	DAPAVTV3031	45	46	GSXS	60	61	75	76	FG	SEQ. ID. NO.
WT	VSDVPRDLEWVAATP	TSLLISWDAPAVTVR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTGRGDSPASSKPI8	INVRT	33					
M12.05	VSDVPRDLEWVAATP	TSLLISWSPFNDAHR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TSUVYA	VTQDQSYTYVNPIS	INVRT	117					
M12.17	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GRKPGADY-TITVYA	VTIEKDRIFLPGPIS	ISVRT	118					
M12.12	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GRKPGADY-TITVYA	VTIEKDRIFLPGPIS	ISVRT	119					
M12.17	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GRKPGADY-TITVYA	VTIEKDRIFLPGPIS	ISVRT	120					
M12.06	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTIHRMPLRIFGPIS	INVRT	121					
M12.01	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTDESPTYKYDDPVS	INVRT	122					
M12.01	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTDESPTYKYDDPVS	INVRT	123					
M12.24	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTENVGRLDTRYPI8	IDCRT	124					
M12.25	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTENVGRLDTRYPI8	INVRT	125					
M12.23	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	XTSATPSRPVHPIS	INLTT	126					
M12.04	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTHRDT-----PIS	INVRT	127					
M12.03	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	ATHGKPPHIFT---	INVRT	128					
M12.07	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTENSTAQEYPI8	FNRT	129					
M12.13	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VAFPPGYPLTEMPIS	INVRT	130					
M12.09	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTFFPRYPLTEMPIS	INVRT	131					
M12.16	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTDKSGTYRYDDPIS	INVRT	132					
M12.22	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTAGTGHRLHDKPIS	INVRT	133					
M12.26	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTHRDT-----PIS	INVRT	134					
M12.15	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTATNPGTQHRPI8	INVRT	135					
M12.18	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTDESWSBDSMDPIS	INVRT	136					
M12.14	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTLYTGNHREHPIS	INVRT	137					
M12.21	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTAGYDVHTKRPIS	IN-RT	138					
M12.19	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTQNGTPRVYGPIS	INVRT	139					
M12.08	VSDVPRDLEWVAATP	TSLLISWBSQSPYGR	YRITYGETGNSPV	QETVP8KSTATIS	GLKPGVDY-TITVYA	VTSHRNHREHPIS	INRTQA	140					

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